

# Case Study

## Providing Backup Power and Reducing Cost All in One

When an emergency generator failed during the installation of a Combined Heat and Power (CHP) system, Titan's creative solution managed to tackle both concerns at once.

### CHALLENGE

While planning a CHP installation at a Connecticut high school, the district's emergency generator at the nearby primary school seized and as a result, generated its final kilowatt with very little notice. Code requirements for public school facilities mandate them to have standby generators in the event of an emergency. Winter in Connecticut was fast approaching when this situation worsened.

### APPROACH AND SOLUTION

Given the short timeframe, TitanGen procured and installed a new 200 kW diesel-fired emergency generator for the primary school, then designed a cost-saving CHP unit at the high school.

Using a Power Purchase Agreement (PPA), TitanGen coupled the emergency generator with the CHP system into a financing solution. This allows the customer to quickly replace the failed equipment and benefit from the cost savings associated with generating heat and electricity with one machine, without the burdens of an upfront cost and ongoing maintenance obligations for either machine.

### AT A GLANCE

- ▲ **Building Type:** School
- ▲ **Services Performed:** Engineering, Project Management, Utility Rebate Procurement
- ▲ **System:** 75kW Tecogen CHP Unit, 200kW Cummins Diesel Generator
- ▲ **Thermal Production:** 500,000 BTUs
- ▲ **Electricity Production:** 657,000 kWh
- ▲ **Savings:** More Than \$20,000 Annually

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